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FEDERAL - STATE - PRIVATE

COOPERATIVE

SNOW SURVEY and WATER SUPPLY FORECASTS for NEVADA

UNITED STATES DEPARTMENT of AGRICULTURE...SOIL CONSERVATION SERVICE, and

NEVADA DEPARTMENT of CONSERVATION and NATURAL RESOURCES
DIVISION of WATER RESOURCES

Data included in this report were obtained by the agencies named above in cooperation with the Federal, State and private organizations listed on the last page of this report.

MAR. 1, 1960

UNITED STATES DEPARTMENT OF AGRICULTURE - SOIL CONSERVATION SERVICE

TO RECIPIENTS OF COOPERATIVE SNOW SURVEY AND WATER SUPPLY FORECAST REPORTS:

The climate of the cultivated and populated areas of the West is characterized by relatively dry summer months. Such precipitation as occurs falls mostly in the winter and early spring months when it is of little immediate benefit to growing crops. Fortunately, most of this precipitation falls as mountain snow which stays on the ground for months, melting later to sustain streamflow during the period of greatest demand during late spring and summer. Thus, nature provides in mountain snow an imposing water storage facility.

The amount of water stored in mountain snow varies from place to place as well as from year to year and accordingly, so does the runoff of the streams. The best seasonal management of variable western water supplies results from fore-knowledge of the runoff.

A snow survey consists of a series of about ten samples taken with specially designed snow sampling equipment along a permanently marked line, about 1000 feet in length, called a snow course. The use of snow sampling equipment provides snow depth and water equivalent values for each sampling point. The average of these values is reported as the snow survey measurement for a snow course.

Snow surveys are made monthly or semi-monthly beginning in January or February and continue through the snow season until April, May or June. Currently more than 1400 western snow courses are measured each year. These measurements furnish the key data for water supply forecasts.

By relating snow survey measurements taken over a period of years to spring-summer runoff during the same period, relationships have been developed which make it possible to forecast seasonal runoff several months in advance of occurrence. In order to make a forecast, once a forecast relationship has been developed, the maximum snow water content at previously selected key snow courses is usually entered in the forecast relationship. More accurate forecasts are often obtained when other factors such as soil moisture, base flow and spring precipitation are considered and included in the forecast relationships.

Listed below are the Federal-State-Private Cooperative Snow Survey and Water Supply Forecast reports available for the West which contain detailed information on snow survey measurements, streamflow forecasts, reservoir storage, soil moisture and other guide data to water management and conservation decisions.

PUBLISHED BY SOIL CONSERVATION SERVICE

REPORTS	ISSUED	LOCATION	COOPERATING WITH
RIVER BASINS			
Colorado and State of Utah	MONTHLY (JANMAY)	SALT LAKE CITY. UTAH	UTAH STATE ENGINEER AND OTHER AGENCIES
COLUMBIA AND STATES OF IDAHO ANO ALASKA	- MONTHLY (JANMAY)	BOISE, IDAHO	IDAHO STATE RECLAMATION ENGINEER
UPPER MISSOURI AND STATEOF MONTANA	. MONTHLY (FEBMAY)	BOZEMAN, MONTANA	MONT. AGR. EXP. STATION
WEST-WIDE	OCT. 1. APR. 1. MAY 1	PORTLAND. OREGON	ALL COOPERATORS
STATES			
ARIZONA	SEMI-MONTHLY (JAN. 15 - APR. 1)		SALT R. VALLEY WATER USERS ASSOCIATION ARIZ. AGR. EXP. STATION
COLORADO AND NEW MEXICO	MONTHLY (FEBMAY)	FORT COLLINS, COLORADO	COLO. AGR. EXP. STATION COLO. STATE ENGINEER N. MEX. STATE ENGINEER
NE VADA	MONTHLY (FEB APR.)	- RENO, NEVAOA	NEVADA DEPT. OF CONSERVATION AND NATURAL RESOURCES - DIVISION OF WATER RESOURCES
OREGON	MONTHLY (JANMAY)	PORTLAND, OREGON	ORE. AGR. EXP. STATION OREGON STATE ENGINEER
WASHINGTON	. MONTHLY (FEBMAY)	SPOKANE, WASHINGTON	WASH. STATE DEPT. OF CONSERVATION
WYOMING	MONTHLY (FEBJUNE)	- CASPER. WYOMING	WYOMING STATE ENGINEER
Copies of these various	reports may be secured	from: Head, Water Supplesoil Conservation 209 S. W. Fifth	
	PUBLISHED BY 01	THER AGENCIES	
REPORT	ISSUED	AC	SENCY
BRITISH COLUMBIA	. MONTHLY (FEB JUNE)		R RIGHTS BR., DEPT. OF LANDS IAMENT BLDG., VICTORIA, B.C
CALIFORNIA	MONTHLY (FEBMAY)	CALIFORNIA DEPT. C	F WATER RESOURCES. SACRAMENTO

FEDERAL - STATE COOPERATIVE

SNOW SURVEYS AND WATER SUPPLY FORECASTS

For

NEVADA

Report Prepared

Ву

Manes Barton and Roy E. Malsor, Jr.

Soil Conservation Service 1479 Wells Avenue Reno, Nevada

Issued By

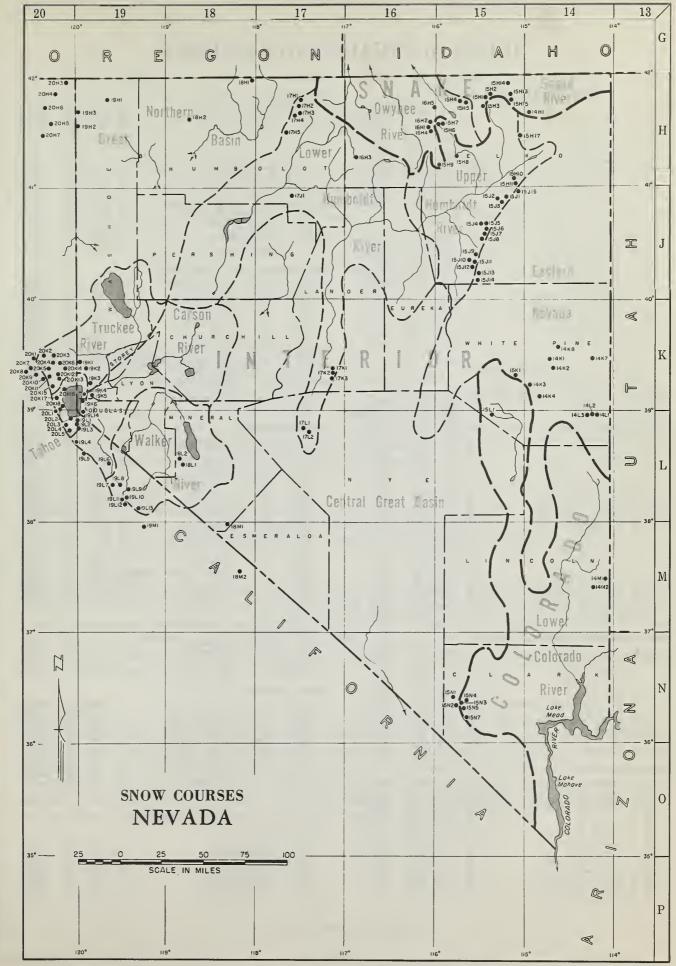
Charles W. Cleary, Jr. State Conservationist Soil Conservation Service Reno, Nevada Hugh A. Shamberger, Director
Department of Conservation
and Natural Resources
Carson City, Nevada



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Carson Valley SCD, Nevada & Alpine SCD, California	. Plate 3
Stillwater, Sheckler, Lahontan SCD's & vicinity, Churchill County	• Plate 4
Smith & Mason Valley SCD's, Nevada & East Walker & Mono County SCD's, California	. Plate 5
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Central & Southern Nevada, Clark, Lincoln, & Nye Counties	. Plate 7
White Pine SCD, White Pine, Lincoln & Nye Counties	. Plate 8
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Northeast Elko SCD, Elko County	. Plate 10
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LIST OF COOPERATORS (Incide 1	hack cover)

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INDEX to NEVADA SNOW COURSES

NUMBER	NA ME	SEC.	Twp.	RGE.	ELEV.	NUMBER		NA ME	SEC.	TWP.	RGE.	ELEV.
	SNAKE RIVER B	A S I	N			CENTRAL						
SNAKE RI							CLARK TROUGH	CANYON Springs	8 23 4	19S 18S	56E 55E	9000 8500
	BEAR CREEK FOX CREEK	31 33	46N 46N	58E 58E	7800 6800	18M 1 18M 2		MERY PASS D MTN	4 19	1N 5S	33E 35E	7100 10200
	76 CREEK GDLD CREEK	6 31	44N 45N	58E 56E	7100 6600	NORTHER	N GPFA	T BASIN				
	FOX CREEK 76 CREEK GDLD CREEK BIG BEND GOAT CREEK	30	45N 46N	56E 60E	6700 8800	100 1	PALS M	011N TA LN	17	45N	21 E	6720
1 5H1 4	POLE CREEK RANGER STATION HUMMINGBIRD SPRINGS	1.3	46N	5 9 E 6 O E	8330 8945	18H 1 18H 2	DISAST	ER PEAK D CREEK	8	47N 42N	34E 28E	6500 5900
	JAKES CREEK			6 2 E	7000	19H 3	49-MTN HAYS C	ANYON	7	42N 39N	19E 18E	6000 6400
OWYHEE R	1 V E R					20H 4 20H 5	RESERV	OUNTAIN ER PEAK D CREEK ANYON ATION CREEK CREEK PASS SWAMP PEAK	12	46N 39N	15E 16E	5900 6500
	LOWER BUCKSKIN UPPER BUCKSKIN	25	45N	39E	6700 7200	20H 6	CEDAR	PASS	12	43N	14E 16E	7100 7000
17H 3*	MARTIN CREEK GRANITE PEAK	18	44N		6700 7800	20H 7	EAGLE	PEAK	35	40N	1 5E	8300
15H 5	MARTIN CREEK GRANITE PEAK GOLD CREEK BIG BEND FRY CANYON RODEO FLAT LDWER JACK CREEK	31	45N	56E 56E	6600	LAKE TA						
15H 7*	FRY CANYON	31	43N	54E	6700	20L 4	(CAL.)	LAKE LUCILLE	28	1 2N	17E	8400
16H 1	RODEO FLAT Ldwer Jack Creek Upper Jack Creek	18	43N 42N	00	6800 6800	19L 3	(CAL.)	LAKE LUCILLE RUBICON #1 HAGANS MEADOW FREEL BENCH	6 36	1 3N 1 2N	17E 18E	8100 8000
15H 8*	UPPER JACK CREEK Tremewan Ranch	9	42N 39N	53E 55E	7250 5700	20N1/	(CAL.)	WARD CREEK	36 21	1 2N 1 5N	18E 16E	73 00 700 0
	TREMEWAN RANCH Taylor Canydn Jacks Peak	35 28	39N 42N	53E 53E	6200 8 42 0	19L 1 20K16	(CAL.)	UPPER TRUCKEE TAHOE CITY	21 6	1 2 N 1 5 N	18E 17F	6400 6250
16H 5	LAUREL DRAW	20	45N	53E	6700	20L 2 20K18	(CAL.)	UPPER IRUCKEE TAHOE CITY RUBICON #2 RUBICON#3 RICHARDSONS #2 ECHO SUMMIT	6 32	1 3N 1 4N	17E 17E	7500 6700
	INTERIOR					20L 3 20L 5	(CAL.)	RICHARDSONS #2 ECHO SUMMIT MARLETTE LAKE DAGGETTS PASS GLENBROOK #2	6 6	1 2N 1 1 N	18E	6500 7500
UPPER HL	MBOLDT RIVER					19K 4 19L14		MARLETTE LAKE DAGGETTS PASS	13 19	1 5N 1 3N	1 8E 1 9E	8000 7350
	BEAR CREEK	3 1 33	46N	58E	7800	19K 6* 19K 2*		GLENBROOK #2 MT. ROSE		1 4N 1 7 N	18E 19E	6900 9000
15H 3*				58E 58E	680 0 7100	T-110K55						
15H 4*	76 CREEK GOLD CREEK BIG BEND FRY CANYON RODEO FLAT LOWER JACK CREEK UPPER JACK CREEK TREMEWAN RANCH TAYLOR CANYON	31	45N 45N	56E 56E	660 0 6700	TRUCKEE 20K 5		INDEPENDENCE LAKE	9	1 8N	1 5E	8450
1 5 4 6	FRY CANYON RODEO FLAT	31 36	43N 43N	54E 53E	6700 6800	20K 1* 20K10*	(CAL.)	WEBBER PEAK DONNER SUMMIT	30 25	1 9N 1 7N	14E 14E	8000 6900
16H 1* 16H 2*	LOWER JACK CREEK UPPER JACK CREEK	18	42N 42N	53E 53E	6800 7250	20K17*	(CAL.)	DONNER SUMMIT WARD CREEK WEBBER LAKE	21	1 5N 1 9N	16E 14E	7 00 0 7000
15H 8	TREMEWAN RANCH Taylor Canyon	9 35	3 9N 3 9N	55E 53E	5700 6200	20K 6	(CAL.)	SAGE HEN CREEK	7	1 8N	1 6E 1 7E	6500 6250
	LOWER TROUT CREEK UPPER TROUT CREEK	28	37N 36N	61E 61E	6900 8500			TAHDE CITY TRUCKEE #2 INDEPENDENCE CREEK			16E 15E	6400 6500
	DORSEY BASIN	28	3 5N	60E 59E	8100 5800	20K14	(CAL.)	BOCA #2 FURNACE FLAT FORDYCE LAKE	28	18N	1 7E 1 3E	5 90 0
15J 3	DRY CREEK LAMOILLE #1	1 5 15	34N 32N	60E 58E	6500 7100	20K 7*	(CAL.)	FORDYCE LAKE SODA SPRINGS	34	18N	13E	6500
15J 5	LAMOILLE #2	14	32N 32N	58E 58E	7300 7700	20K 4		INDEPENDENCE CAMP	34		14E 15E	6750 7000
15J 7	LAMOILLE #4	19	3 2N	59E 59E	8000 8700	19K 2 20K12	(CAL.)	MT. ROSE TRUCKEE RANGER STA	.10	17N 17N	1 9E 1 6E	9000
15J 9	GREEN MOUNTAIN	23	2 9N	57E	8000	2 0K 1 1 1 9K 1	(CAL.)	DONNER LAKE BIG MEADOWS	1.4 1.5	1 7N 1 8N	1 5E 1 8E	5950 8800
15J11	HARRISON PASS #2	9 16	28N	57E 57E	6600 7400	19K 3 20K15	(CAL.)	LITTLE VALLEY SOUAW VALLEY	17 6	1 6N 1 5N	19E 16E	6300 7500
15J12	CORRAL CANYON	27	28N	5 7E	8500							
LOWER HU	MBOLDT RIVER					CARSON 19L 4		CARSON PASS	22	1 ON	1 8E	8600
			45N 45N		6700 7200	19L 6	(CAL.)	POISON FLAT Blue Lakes	25 30	8N 9N		7900 8000
	MARTIN CREEK	1 8 22	44N	40E 39E	6700 7800	19K 5	, ,	CLEAR CREEK	16	1 4N	19E	7300
17H 5 16H 3		13 18		38E 46E	6000 7200	WALKER	RIVER					
17K 1	RIG CREEK CAMP GROUND	10	1 7N	43E 43E	6600 7600	19L12	(CAL.)	CENTER MOUNTAIN	4	3N 5N	23E 21E	9400 8800
17K 3	UPPER RIG CREEK	26 12	1 7N	43E 40E	8000 7500	19L11	(CAL.)	SONORA PASS BUCKEYE FORKS VIRGINA LAKES WILLOW FLAT BUCKEYE ROUGHS	20	4N 2N	23E 25E	8500 9500
17L 2	UPPER CORRAL	20	11N	41E 39E	8500	19L 9	(CAL.)	WILLOW FLAT	21	5N	23E 23E	8250 7900
1/3 1	GOECONDA	22	2 214	331	6000	19L 8	(UAL.)	LEAVITI MEADOWS	4	SIA	225	7200 9900
EASTERN		6	251	6.15	7000	18L 1	(CAL.)		36	8N		9000
15J13	HOLE-IN-MTN CAVE CREEK	25		57E	7900 7500	18L 2		MT. GRANT	23	8N	28E	9000
1 4K 3	MURRAY SUMMIT	34 25	1 6N	57 E 6 2E	8000 7250			COLORADO				
14L 2	BAKER #2	29 30	13N	69E	7950 8950	LOWER	OLORAD	O RIVER				
14K 2	BERRY CREEK	25 26	17N	68E 65E	9250 9100	15N 5	KYLE C	ANYON		195		8200
1 5K 1	BIRD CREEK ROBINSON SUMMIT	34 34	19N 18N	6 5E 6 1 E	7500 7600	15N 3	LEE CA	NYON #2	10	195	56E 56E	8300 9000
	WARD MOUNTAIN SILVER CREEK #2	34 34 25 30	15N 16N	6 2E 6 9E	7875 8000	1 4M 1	MATHEW	W CANYON #2 CANYON	6 11	20S 5S	57E 70E	8100 6000
1 4K 8	KALAMAZOO CREEK	34	20N 13N	65E	7400 7400	14M 2	PINE C		11 31	6S 13	69E 59E	6200 7400

WATER SUPPLY OUTLOOK FOR NEVADA

STREAMFLOW FORECASTS

March 1 forecasts of irrigation season water supply range from a high of 82 percent of normal for the South Fork Humboldt near Elko to lows of 49 and 50 percent normal, respectively, on the Humboldt at Palisade and Carson at Ft. Churchill. The Truckee Basin Water Committee is forecasting 72,000 acre feet of flow during April-July for the Little Truckee above Boca; 212,000 acre feet during April-July for the Truckee at Farad and a rise of 1.02 feet, from April 1 of Lake Tahoe, which is 68 percent of the 15-year (1943-57) normal.

RESERVOIR STORAGE

Storage in Nevada's principal reservoirs is much below normal. These reservoirs now hold 36 percent of their capacity and 56 percent of their 1943-57 March 1 normal. On March 1 Lake Tahoe was at 6225.43 feet above sea level.

SOIL CONDITIONS

Mountain soils under the snow are still dry and during the melt season will remove an appreciable amount of water which would otherwise be available as streamflow. Lower elevation rangeland soils have increased in moisture content during the past two months. However, range conditions this spring and summer can only be anticipated to be fair unless additional precipitation occurs. Soil moisture conditions in southern Nevada are damp to moist.

SNOW COVER

Water content of the mountain snowpack improved during February due to greater than normal February snowfall. In the Tahoe basin usually 87 percent of a normal winters snow water has accumulated by March 1. This year 58 percent has accumulated. In the Walker basin the corresponding percentages are 90 percent for March 1 average and 62 percent this year. The Carson Basin figures are 78 percent for March 1 average and 62 percent this year while in the Humboldt basin values are 90 percent for March 1 average and 74 percent for March 1, 1960.

NEVADA STREAMFLOW FORECASTS - MARCH 1, 1960

The following summarized runoff forecasts are based principally on mountain snow cover and the assumption that precipitation and temperature will be near average from the present time to the end of the forecast period. Appreciable deviations from normal of temperature and/or precipitation will correspondingly modify these forecasts.

	April-July		low Thousar	nds Acre	Feet
Forecast Stream	Forecast 1960	15-Yr. Av. 1943-57	1960 as % of 15 - Yr.Av.	Measur 1959	ed Runoff 1958
Owyhee River nr. Gold Creek, Nev.	1 14	27	52	7	37
Owyhee River nr. Owyhee, Nev. 1	50	86	58	16	% 11 0
Lamoille Creek nr. Lamoille, Nev.	18	28	64	13	29
So. Fk. Humboldt nr. Elko, Nev.	64	74	82	10	77
Humboldt River at Palisade, Nev.	110	225	49	20	228
Martin Creek nr. Paradise, Nev.	13	17	76	6	30
East Walker nr. Bridgeport, Cal. 2	31	61	51	18	125
West Walker nr. Coleville, Cal.	86	148	58	81	218
East Carson nr. Gardnerville, Ne	v. 125	189	66	96	276
West Carson at Woodfords, Cal.	38	5 ¹ 4	70	27	84
Carson River nr. Carson City	105	184	57	55	298
Carson River at Ft. Churchill	85	171	50	40	274
Little Truckee River above Boca, California ⁵	72	86*	84	32	169
Truckee River at Farad, Cal. 3,5	212	255	83	109	456
Lake Tahoe ⁴ , ⁵	1.02	1.50	68	0.44	2,58
Salmon Falls Creek nr. San Jacinto, Nevada	60** 58***	88 85	68 68	-	87 84

- 1. Corrected for storage in Wild Horse Reservoir.
- 2. For period April through August corrected for storage in Bridgeport Reservoir.
- 3. Exclusive of Tahoe and corrected for storage in Boca Reservoir.
- 4. Maximum rise, in feet, from April 1, assuming gates closed.
- 5. Forecast issued by Truckee Basin Water Committee which is composed of Truckee-Carson Irrigation District, Sierra Pacific Power Company and Washoe County Water Conservation District.
- * Subject to change due to questionable streamflow data.
- ** Forecast period of March-September
- *** Forecast period of March-July.

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NEVADA

STATUS OF RESERVOIR STORAGE

MARCH 1, 1960

			USA	BLE STOR	AGE - 1000	O ACRE FEET
BASIN AND STREAM	RESERVOIR	USABLE CAPACITY (1000 AF)) 1960	1959	1958	MARCH 1 15-YR. AVE. 1943-57
Owyhee	Wild Horse	33	10	22	19	13
Lower Humboldt	Rye Patch	179	26	120	81	103
Colorado	Mohave	1,810	1,728	1,696	1,743	1,467*
Colorado	Mead	27,217	19,124	21,194	19,712	16,929
Tahoe	Tahoe	732	291	563	583	465
Truckee	Boca	41	5	2	10	6
Carson	Lahontan	286	127	237	205	215
West Walker	Topaz	59	16	52	30	42
East Walker	Bridgeport	42	19	42	30	33

^{*} Storage began in 1950.

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SNOW WATER ACCUMULATION in NEVADA by BASIN

MARCH 1, 1960

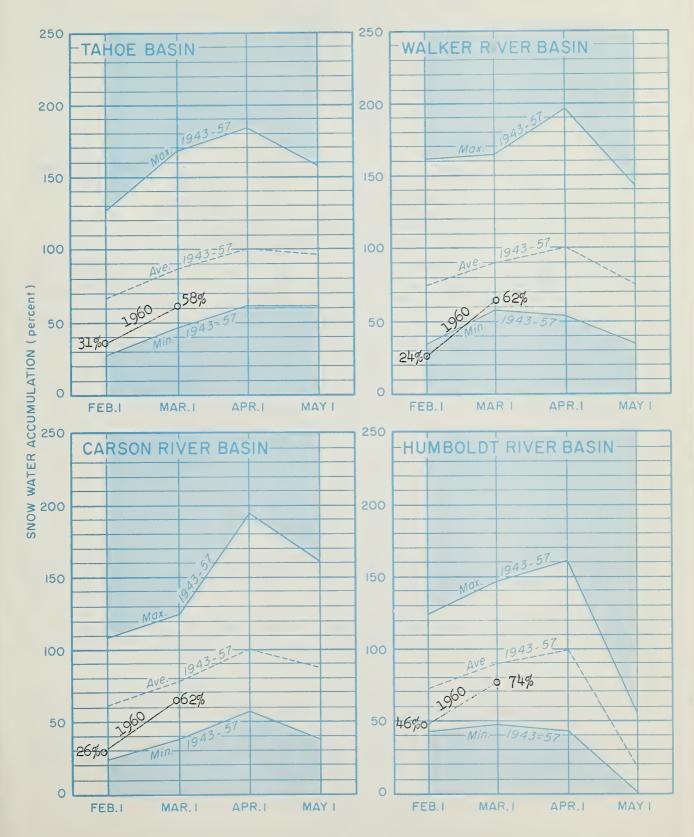
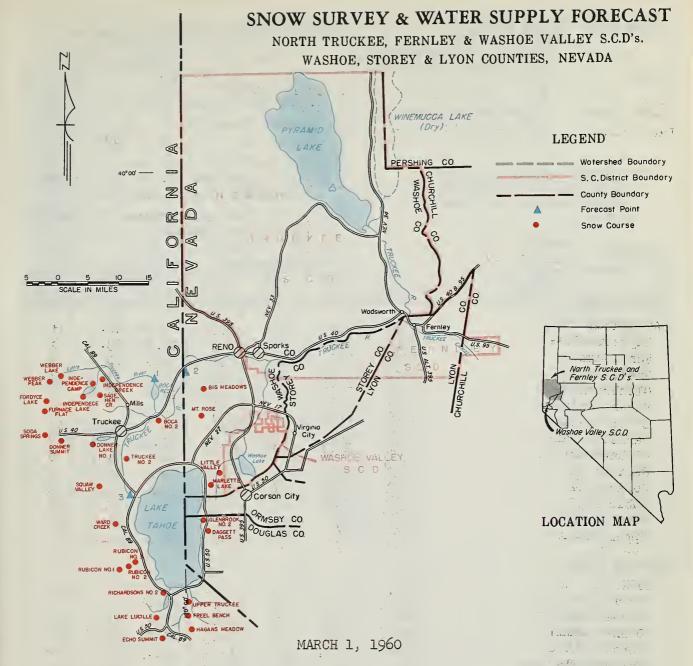


Plate 1





Storms during February improved the water supply outlook in the Tahoe-Truckee Basin. However, the Sierra snowpack is still below normal. Runoff is forecast to be below normal.

According to the Truckee Basin Water Committee the rise of Lake Tahoe is expected to be 1.02 feet from April 1 through the runoff period. The March 1 elevation of Lake Tahoe was 6225.43 feet above sea level.

The Truckee River at Farad is forecast to flow 212,000 acre feet during April-July. The Little Truckee above Boca is forecast at 72,000 acre feet.

Hold-over storage is below normal but with normal to above normal precipitation there should be adequate water for irrigation along the Truckee River.

RESERVOIR	USABLE	MEASURED (First of Month)			
	CAPACITY	THIS YEAR	LAST YEAR	NORMAL	
Boca	41	5	2	6	
Lake Tahoe	732	291	563	465	

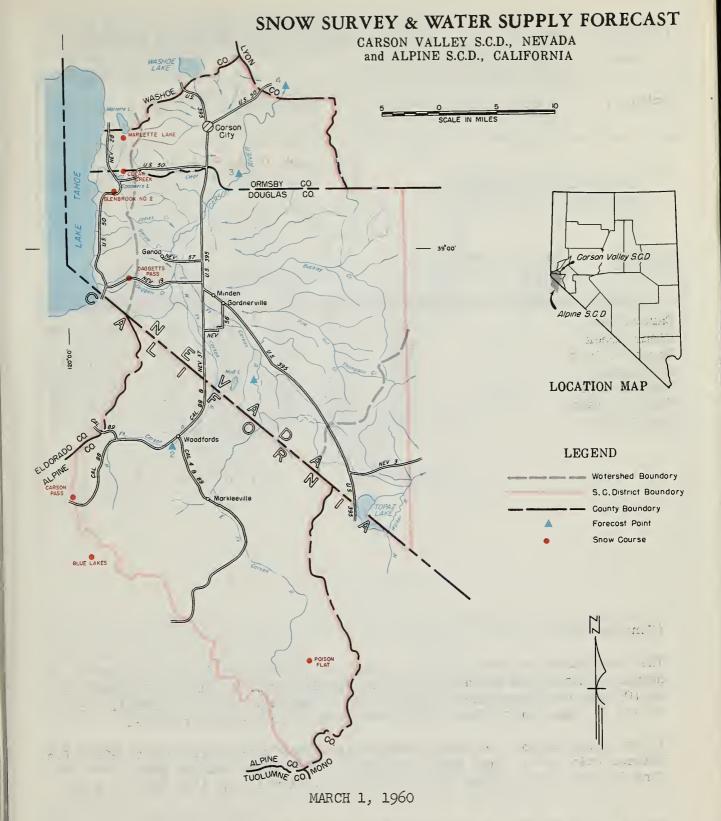
Note: All normals based on 1943-195715 year period. "Years of record" indicates number of years used in 1943-1957 period. The forecast period is from April I through July 31.

MARCH 1, 1960

APRIL - JULY RUNOFF (1,000 Ac. Ft.)

	FORECAST POINT	FORECAST	MEAS	URED
		THIS YEAR	LAST YEAR	NORMAL
	l. Little Truckee River above Boca	72	32	86*
	2. Truckee River at Farad, Calif.	212	109	83
	3. Lake Tahoe rise (In ft. from Apr. l assuming gates o		0.44	1.50
N	ote: Above forecasts p Basin Water Commi		d by I	ruckee

* Subject to change.					3
OF	DEPTH	CONTENT			YEARS OF
SURVET	(inches)	(inches)	LAST YEAR	NORMAL	RECORD
3/2 2/29 3/3 2/27 3/5 3/5 3/2 2/28 2/28 2/28 2/28 2/28 3/3	18 58 25 24 36 20 37 33 85 53 42 26 18	5.4 21.1 8.6 6.9 13.5 7.7 13.4 11.4 31.8 19.9 15.3 96.9	6.8 25.7 9.0 8.4 14.6 - 14.4 12.2 30.6 20.2 13.4 8.3 26.8	10.7 33.6 13.3 13.2 21.2 - 20.5 14.1 42.7 26.9 19.1 11.7 10.1	14 15 8 12 7 4 15 10 56 5 15 12 13
3/1 3/2 2/29 2/25 2/25 3/4 3/4 2/27 3/1 2/27	21	6.1	4.6 14.1 25.9 27.7 32.5 10.3	8.4 -33.8 33.1 39.7 19.0 11.7 28.0 17.4	10 0 15 14 14 13 11 7 14 3
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	3/2 2/29 3/3 2/27 3/3 3/5 3/2 2/28 2/28 2/28 2/28 2/28 3/3 3/2 3/1 3/2 2/29 2/25 2/25 3/4 3/4 2/27 3/1 2/27	CURRENT INFORM. DATE SNOW DEPTH (Inches) 3/2 18 2/29 58 3/3 25 2/27 24 3/3 36 3/5 20 3/2 37 2/27 33 2/28 85 2/28 42 2/28 26 3/3 18 3/2 76 3/1 21 3/2 38 2/29 63 2/25 63 2/25 71 3/4	CURRENT INFORMATION DATE OF SNOW DEPTH CONTENT (Inches) 3/2 18 5.4 2/29 58 21.1 3/3 25 8.6 2/27 24 6.9 3/3 36 13.5 3/5 20 7.7 3/2 37 13.4 2/27 33 11.4 2/28 85 31.8 2/28 53 19.9 2/28 42 15.3 2/28 26 9.8 3/3 18 6.9 3/2 76 29.8 3/1 21 6.1 3/2 38 13.5 2/29 63 28.6 2/25 63 29.3 2/25 71 31.3 16.2 2/27 38 13.7 3/4 30 10.3 3/4 3/4	CURRENT INFORMATION OF SURVEY CONTENT CONTENT (Inches) WATER CONTENT (Inches) CONTENT (Inches) WATER CONTENT (Inches) CARRY (Inches) WATER CONTENT (Inches)	CURRENT INFORMATION PAST RECORD OF SNOW OF SURVEY Clinches CONTENT (Inches) LAST YEAR NORMAL



March 1 snow surveys in the Carson River portion of the Sierras indicate a below normal snowpack which is 66 percent of average and 80 percent of last year. Taking into account the still existant dry soil conditions and assuming normal precipitation during March through May the East Carson near Gardnerville is forecast to flow 125,000 acre feet during April-July or 66 percent of normal.

(Over)

RESERVOIR	USABLE CAPACITY	MEASURED (First of Month)			
	CAPACITY	THIS YEAR	LAST YEAR	NORMAL	
Lahontan	286	127	237	215	

Note: All normals based on 1943-195715 year period, "Years of record" indicates number of years used in 1943-1957 period. The forecost period is from April I through July 31.

APRIL - JULY RUNOFF (1,000 Ac. Ft.)

	FORECAST POINT	FORECAST	MEAS	URED
		THIS YEAR	LAST YEAR	NORMAL
1.	East Carson near Gardnerville	125	96	189
2.	West Carson at Woodfords, Calif.	38	27	54
3.	Carson River near Carson City	105	55	184
4.	Carson River at Fort Churchill	85	40	171

CNIOW/ MARCH 1, 1960

SINOW Parton 1, 1900		CURR	ENT INFORM	ATION	PAST F		
SNOW COURSE NAME	ELEVATION	DATE OF SURVEY	SNOW DEPTH (Inches)	WATER CONTENT (Inches)	WATER (Inc	CONTENT hes) NORMAL	YEARS OF RECORD
Carson Pass Clear Creek Daggetts Pass Echo Summit Glenbrook #2 Marlette Lake Sonora Pass	8600 7300 7350 7500 6900 8000 8800	2/28 3/3 3/2 2/29 2/27 3/2 3/1	57 26 18 58 24 37 42	22.7 8.4 5.4 21.1 6.9 13.4 14.9	33.4 9.1 6.8 25.7 8.4 14.4 18.0	28.2 14.5 10.7 33.6 13.2 20.5	15 9 14 15 12 15 5

(Continued)

The West Carson at Woodfords is forecast at 38,000 acre feet or 70 percent of normal. Downstream at Carson City the April-July river flow is forecast to be 105,000 acre feet which is 57 percent of normal. At Ft. Churchill the Carson is expected to flow 85,000 acre feet or 50 percent of normal.

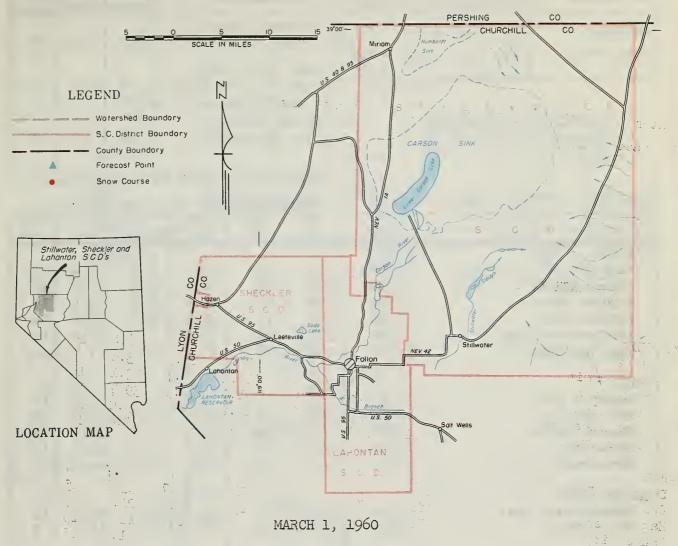
It is estimated that the East Carson near Gardnerville will drop to 200 c.f.s. between July 1-15. Last year the river at this point fell to 200 c.f.s. on June 28-29*. The average date of 200 c.f.s. flow is the last week in July.

Due in large part to very deficient March and April precipitation. modern Ladi , dite. I - the expense as i server of Lost instances

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SNOW SURVEY & WATER SUPPLY FORECAST

STILLWATER, SHECKLER, LAHONTAN S.C.D's. & VICINITY CHURCHILL COUNTY, NEVADA



Water users in the Fallon area can expect enough irrigation water to avoid any serious crop damage. Efficient and careful irrigation water management by water users will be most beneficial.

Lake Tahoe is expected to rise 1.02 feet from April 1 through the runoff season. This is 68 percent of the 1943-57 normal. Present storage in Lake Tahoe is 291,000 acre feet which is 63 percent of the March 1, 1943-57 normal.

The Carson at Ft. Churchill is forecast to flow 85,000 acre feet during April-July which is 50 percent of normal.

Lahontan Reservoir held 127,000 acre feet on March 1 which was 59 percent of the 15 year (1943-57) normal.

RESERVOIR	USABLE	MEASU	RED (First o	f Month)
	CAPACITI	THIS YEAR	LAST YEAR	NORMAL
	286	127	237	215
Lake Tahoe	732	291	563	465

Note: All normals based on 1943-195715 year period, "Yeors of record" indicates number of years used in 1943-1957 period. The forecost period is from April I through July 31.

APRIL - JULY RUNOFF (1,000 Ac. Ft.)

FORECAST POINT	FORECAST	MEASURED		
	THIS YEAR	LAST YEAR	NORMAL	
Truckee River at Farad, Calif.*	212	109	255	
Lake Tahoe rise* (In ft. from April l assuming gates cl		0.44	1.50	
Carson River at Ft. Churchill	85	40	171	

* Forecasts prepared by Truckee Basin Water Committee

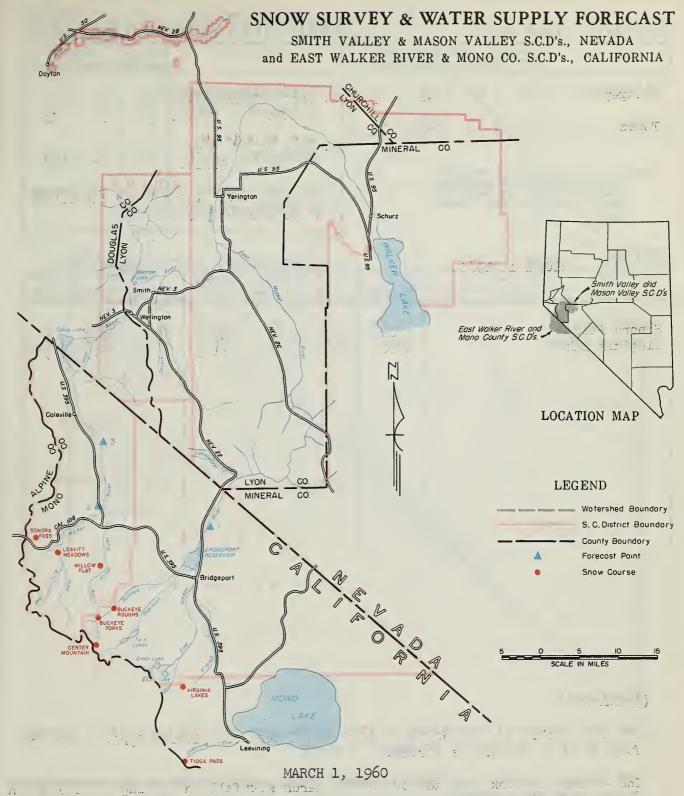
SNOW MARCH 1, 1960

SNOW MARCH 1, 1900	CURR	RECORD)				
SNOW COURSE		DATE	SNOW DEPTH	WATER CONTENT	WATER (Inc	CONTENT	YEARS OF
NAME	ELEVATION	SURVEY	(Inches)	(Inches)	LAST YEAR	NORMAL	RECORD
TRUCKEE Boca #2 Donner Summit Fordyce Lake Furnace Flat Independence Camp Sage Hen Creek	5900 6900 6500 6600 7000 6500	3/1 2/29 2/25 2/25 3/4 2/27	21 63 63 71 46 38	6.1 28.6 29.3 31.3 16.2 13.7	4.6 25.9 27.7 32.5 -	8.4 33.8 33.1 39.7 19.0 17.4	10 15 14 14 13
TAHOE Daggetts Pass Echo Summit Hagans Meadow Tahoe City Ward Creek	7350 7500 8100 6250 7000	3/2 2/29 3/3 2/28 3/2	18 58 36 26 76	5.4 21.1 13.5 9.8 29.8	6.8 25.7 14.6 8.2 26.8	10.7 33.6 21.2 11.7 41.4	14 15 7 15 13
CARSON RIVER Upper C rson Pass Clear Creek	8600 7300	2/28 3/3	57 - 126 - 120	22.7 8.4	33.4 9.1	28.2	1 5
ma ii ee oo no oo ac ee easagansh ne a	387 TE	garat Lur	ewar ir.	st sens s vaedu kolfett	*	en illiv	music s
rough the muniff reuson. ys in Lake Tahre fo 1-57 normal.	BONNE PR	Frest	Turnal.	76-6-17	1	Under 19	

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-40.20) and -200 -200 -200 and then the third is -300 -300 -300 -300 -300 -300 -300

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The mountain snowpack on the high Sierra watersheds now averages 7l percent of the March l normal. Dry soil conditions exist under the snowpack and are an important factor in this coming spring-summer runoff.

Taking into account these soil conditions the East Walker near Bridgeport is forecasted to flow 31,000 acre feet during April 1 through August 31; which is 51 percent of normal.

(Over)

RESERVOIR	USABLE	MEASURED (First of Month)				
	CAPACITY	THIS YEAR	LAST YEAR	NORMAL		
Bridgeport	42	16	42	33		
Topaz	59	19	52	42		

Note: All normals based on 1943-195715 year period, "Years of record" indicates number of years used in 1943-1957 period. The forecast period is from April I through July 31,

APRIL - JULY RUNOFF (1,000 Ac. Ft.)

FORECAST POINT	FORECAST	MEAS	URED
	THIS YEAR	LAST YEAR	NORMAL
 East Walker* near Bridgeport, Calif. 	31	18	61
2. West Walker near Coleville, Calif.	86	81	148
* AprAug. runoff comin Bridgeport Reserv		for o	hange

SNOW MARCH 1, 1960		CURRENT INFORMATION PAST RECORD					
SNOW COURSE NAME ELEVATION		DATE OF SURVEY	SNOW DEPTH (Inches)	WATER CONTENT (Inches)	WATER (Inc	YEARS OF RECORD	
Sonora Pass Virginia Lakes	8800 9500	3/1 3/1	42 36	14.9	18.0 13.7	20.5 16.5	5 5

(Continued)

The West Walker is forecasted to flow 86,000 acre feet during April 1 through July 31 or 58 percent of normal.

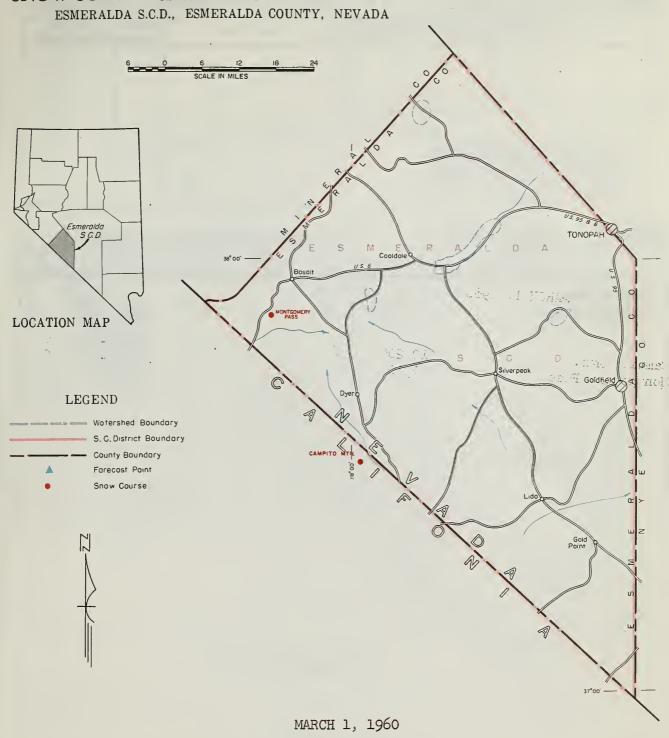
The present outlook will improve should March snowfall and spring precipitation prove to be above normal.

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SNOW SURVEY & WATER SUPPLY FORECAST



The snow cover in the White Mountains is about 50 percent of last year as indicated by two snow courses established in 1958. Precipitation at White Mtn. #1 Station was about normal for the past month. Mountain soils are dry and will use most of the snow-stored water. Little runoff is expected this spring unless there is an increase in snow during March.

APRIL - JULY RUNOFF (1,000 Ac. Ft.)

RESERVOIR	USABLE		JRED (First o	f Month)		FORECAST POINT	FORECAST	MEAS	URED
	CAPACITY	THIS YEAR	LAST YEAR	NORMAL			THIS YEAR	LAST YEAR	NORMAL
	T								
	Į.								
					FORECAST POINT				

	is bosed on 1943 ss of record" ind d in 1943-1957 riod is from Ap	period. Th	e				
CNIOW	14470 677 7	7.0(0					

SNOW MARCH 1, 1960							
51 10 VV Parton 1, 1,000		CURRI	ENT INFORMA	NOITA	PAST R	1	
SNOW COURSE NAME	ELEVATION	DATE OF SURVEY	SNOW DEPTH (Inches)	WATER CONTENT (Inches)	WATER (YEARS OF RECORD	
NAME	ELEVATION	SONVET	(menes)	(inches)	LAST TEAR	NORMAL	NECOND
Campito Mtn. Montgomery Pass	10,200 7,100	3/4 3/1	2	1.2	3.8 2.4	nut me	0
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SNOW SURVEY & WATER SUPPLY FORECAST CENTRAL and SOUTHERN NEVADA CLARK, LINCOLN & NYE COUNTIES, NEVADA LINCOLN CO Central and Southern Nevada LOCATION MAP LEGEND Watershed Boundary S. C. District Boundary County Boundary Forecast Point Los Vegas Snow Course B M

Snow cover in the Spring Mountains near Las Vegas is about 135 percent of the March 1, 1943-57 average. Ground-water recharge from the snowpack should be excellent this year.

MARCH 1, 1960

SCALE IN MILES

Two snow courses on Clover Creek, a tributary to Meadow Valley Wash, were measured. Mathew Canyon snow course reported 5.4 inches of water and Pine Canyon 4.9 inches of water. This is about the same as last year and the courses were above the March 1, 1943-57 average.

(Over)

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USABLE MEASURED (First of Month) RESERVOIR THIS YEAR LAST YEAR | NORMAL Mead 19124 21194 15929 Moha.ve 1810 1696 1728 1467

* Storage bagan in 1950

Note: All normols bosed on 1943-195715 yeor period, "Yeors of record" indicates number of yeors used in 1943-1957 period. The forecost period is from April I through July 31.

APRIL - JULY RUNOFF (1,000 Ac. Ft.)

FORECAST POINT	FORECAST MEASURED				
	THIS YEAR	LAST YEAR	NORMAL		
	1				

SNOW MARCH 1, 1960	CURRENT INFORMATION PAST RECORD						
SNOW COURSE NAME ELEVATION		DATE OF SURVEY	SNOW DEPTH (Inches)	WATER CONTENT (Inches)	WATER	CONTENT hes)	YEARS OF RECORD
Clark Canyon Kyle Canyon Lee Canyon #1 Lee Canyon #2 Rainbow Canyon #2 Trough Springs	9000 8200 8300 9000 8100 8500	2/26 2/28 2/28 2/28 2/28 2/27	37 33 29 36 41 33	11.1 11.2 10.4 10.9 13.3 10.1	5.4 8.7 7.2 7.9 11.8 4.6	6.7 9.3 8.1 9.0 13.4 5.6	12 15 15 15 11 12
MEADOW VALLEY SCD Mathew Canyon Pine Canyon	6200 6000	2/28 2/29	11	5.4 4.9	5·3 4.6	1.6	9 9
TONOPAH SCD Lower Corral Upper Corral	7500 8500	2/25 2/24	8	2.2	2.3	1.4	14 14

(Continued)

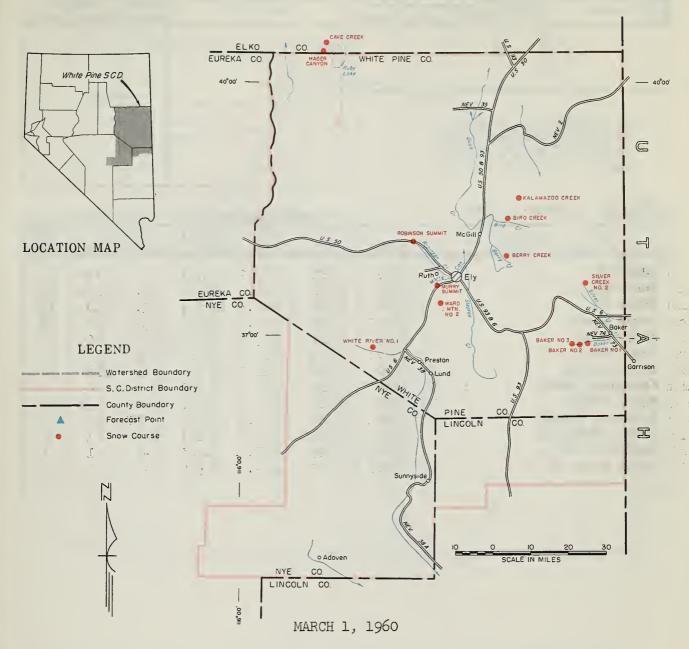
In the upper end of Reese River in northern Nye County two courses were measured and found to be 115 percent of the March 1, 1943-57 average. If normal precipitation and temperature occurs small streams in this area should have good runoff.

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SNOW SURVEY & WATER SUPPLY FORECAST WHITE PINE S.C.D., WHITE PINE, LINCOLN & NYE COUNTIES, NEVADA



Irrigation water supplies in the White Pine Soil Conservation District will be better than last year but less than normal. The present snowpack is 74 percent of normal and 137 percent of last year.

Soils under the snowpack are dry and will require a significant amount of snowmelt water before runoff begins.

The snowpack in the Snake Range near Baker and Garrison is 78 percent of normal. Snow courses on the west slope of the Schell Range on Bird and Berry Creeks are 125 percent of last years March 1 reading but are only 62 percent of the 15-year (1943-57) average.

APRIL - JULY RUNOFF (1,000 Ac. Ft.)

RESERVOIR	USABLE CAPACITY	MEASURED (First of Month)					
		THIS YEAR	LAST YEAR	NORMAL			

•					
FORECAST POINT	FORECAST	MEASURED			
	THIS YEAR	LAST YEAR	NORMAL		
	-				

NOTE: All normals based on 1943-195715 year period, "Years of record" indicates number of years used in 1943-1957 period. The forecast period is from April I through July 31,

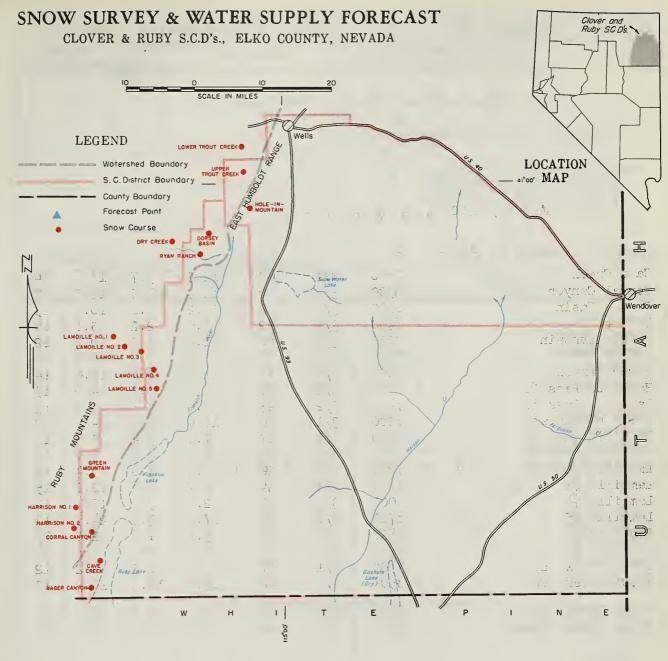
SNOW MARCH 1, 1960

SIVO W PARTOIL I, 1900		CURRENT INFORMATION			PAST F		
SNOW COURSE		DATE OF SURVEY	SNOW DEPTH	WATER CONTENT	WATER CONTENT (Inches)		YEARS OF RECORD
Baker #1 Baker #2 Baker #3 Berry Creek Bird Creek Cave Creek Hager Canyon Kalamazoo Creek Murry Summit Robinson Summit Silver Creek #2 Ward Mtn. #2 White River #1	7950 8950 9250 9100 7500 7500 8000 7400 7250 7600 8000 8900 7400		26 41 44 34 17 43 46 26 18 13 23 29	5.2 10.6 12.1 8.0 3.2 12.5 11.0 6.5 3.1 4.6 7.5 2.0	3.7 7.5 8.0 7.9 2.5 5.7 6.9 3.7 3.1 1.7 2.8 8.7 3.1	6.4 15.6 13.6 13.8 13.8 18.6	15 15 13 10 10 14 14 0 15 9 1

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MARCH 1, 1960

Recent snow surveys on the west slope of the Ruby Mountains indicate snowstored water to be about 95 percent of March 1 1943-57 average. Two courses at the Ruby Lake National Wildlife Refuge were about 75 percent of normal.

A new course, Hole-in-Mountain at 7900 feet measured 16.8 inches of water or about double last year.

All streams flowing from the eastern slope of the Ruby Mountains will run about 70 percent of average.

STORAGE (1,000 Ac. Ft.) APRIL - JULY RUNOFF (1,000 Ac. Ft.)

		•						
RESERVOIR	USABLE			FORECAST POINT	FORECAST MEASE		URED	
	CAPACITY	THIS YEAR	LAST YEAR	NORMAL		THIS YEAR	LAST YEAR	NORMAL
	1		j l					
	·							
NOTE: All normals bas period, "Years of	ed on 1943	-195715 y	ear					
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July 31.

of years used in 1943-1957 period. The forecost period is from April I through

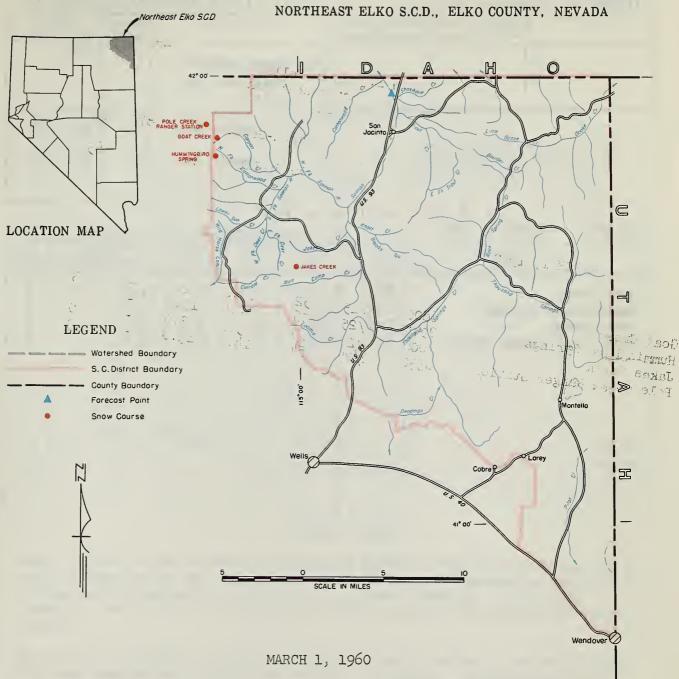
SNOW MARCH 1, 1960		CURRENT INFORMATION PAST RECORD OATE SNOW WATER WATER CONTENT					
SNOW COURSE			SNOW OEPTH	WATER	WATER CONTENT (Inches)		YEARS OF
NAME	ELEVATION	SURVEY	(Inches)	(Inches)	LAST YEAR	NORMAL	RECORO
Cave Creek Corral Canyon Dorsey Basin Dry Creek Green Mountain	7500 8500 8100 6500 8000	3/1 3/4 3/4 3/4 3/2	43 42 40 22 40	12.5 11.9 11.2 6.0 11.4	5.7 7.5 7.1 2.2 7.5	13.8 15.9 10.2 5.1 10.7	14 12 15 14 12
Hager Canyon Harrison Pass #1 Harrison Pass #2 Hole-in-Mountain Lamoille #1	8000 6600 7400 7900 7100	3/1 3/2 3/2 3/1 3/1	22 23 56 27	11.0 4.8 5.6 16.8 7.6	6.9 3.0 4.3 8.2 5.4	18.6 4.0 4.0 - 9.8	14 15 13 0
Lamoille #2 Lamoille #3 Lamoille #4 Lamoille #5 Ryan Ranch	7300 7700 8000 8700 5800	3/1 3/1 3/1 3/1 3/4	26 34 40 46 9	7.5 9.7 12.4 17.0 3.1	5.6 6.6 9.0 13.5	9.4 12.2 17.7 24.5 2.0	15 15 14 13 15
Trout Creek, Lower Trout Creek, Upper	6900 8500	3/1 3/1	17 42	3.7 13.7	2.2	3.2 18.3	12
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SNOW SURVEY & WATER SUPPLY FORECAST



The mountain snowpack in the headwaters of Salmon Falls Creek is very similar in amount to that of a year ago this date.

Water supply prospects this coming summer are comparable to last years. Salmon Falls Creek near San Jacinto is forecast to flow 58,000 acre feet during the March-July period which is 68 percent of the 1943-57 normal. Unless snowfall continues during March along with spring precipitation during April and May, streams will drop to low flows earlier in the summer than is normal.

Soils are still dry and they will subtract from the snow melt during the spring thaw.

Continuation of efficient irrigation water management will pay good dividends in water saved.

RESERVOIR	USABLE CAPACITY	MEASURED (First of Month)					
		THIS YEAR	LAST YEAR	NORMAL			

Note: All normals bosed on 1943-195715 year period, "Years of record" indicates number of years used in 1943-1957 period. The forecost period is from April I through July 31,

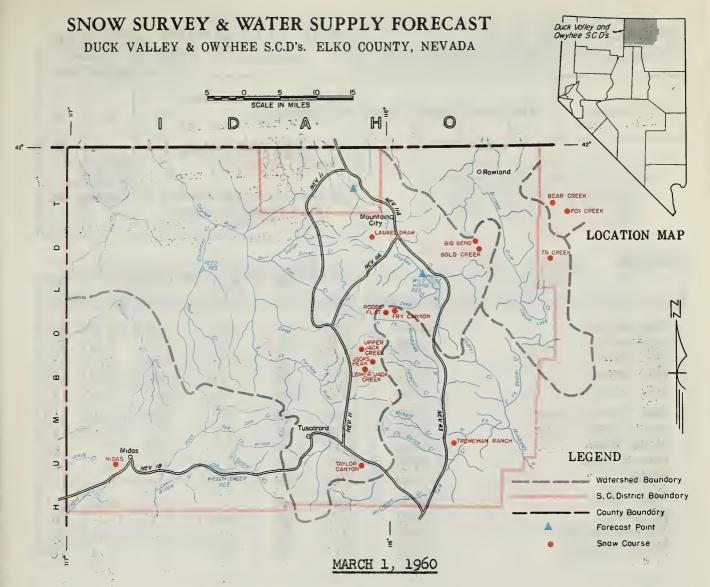
APRIL - JULY RUNOFF (1,000 Ac. Ft.)

FORECAST POINT 1. Salmon Falls Creek near San Jacinto March-Sept.	FORECAST	MEASURED		
	THIS YEAR	LAST YEAR	NORMAL	
Creek near San		1958		
March-Sept.	60	87	88	
March-July	58	84	85	

SNOW MARCH 1, 1960

SIVO W FIREIGH 1, 1900			CURRENT INFORMATION PA					
SNOW COURSE NAME	ELEVATION	DATE OF SURVEY	SNOW DEPTH (Inches)	WATER CONTENT (Inches)	WATER (Inc	CONTENT hes) NORMAL	YEARS OF RECORD	
Goat Creek Hummingbird Springs Jakes Creek Pole Creek Ranger Station	8800 8945 7000 8330	2/25 2/25 3/2 2/25	52 56 19 54	13.0 14.4 . 5.0 14.0	12.4 13.8 3.0 13.0	-	3 3 0 3	

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Water content of the mountain snowpack has improved considerably during the month of February in the Owyhee watershed and is now 93 percent of the 1943-57 average and 133 percent of last year. The lower elevation snow courses generally have higher percent of normal water contents than higher elevation courses.

The dry soil condition produced this fall and early winter by deficient rainfall has improved but slightly in the past two months. Mountain soils will take up appreciable amounts of snowmelt water before runoff begins.

The Owyhee River near Gold Creek is forecast at 14,000 acre feet or 52 percent of normal. Wild Horse Reservoir is not expected to fill to its 33,000 acre feet of capacity.

Downstream at Owyhee, the river is forecasted to flow 50,000 acre feet or 58 percent of normal.

Continued snowfall during March supplemented by spring rains will improve the runoff outlook. Range conditions will be only fair to poor unless more rainfall occurs.

Careful water management through efficient irrigation practices will be most beneficial again this year.

RESERVOIR	USABLE	MEASU	RED (First o	f Month)
	CAPACITY	THIS YEAR	LAST YEAR	NORMAL
Wild Horse	33	10	22	13

Note: All normols bosed on 1943-195715 year period, "Yeors of record" indicates number of years used in 1943-1957 period. The forecast period is from April I through July 31,

APRIL - JULY RUNOFF (1,000 Ac. Ft.)

FORECAST POINT	FORECAST	MEASURED		
	THIS YEAR	LAST YEAR	NORMAL	
1. Owyhee River near Owyhee 1/	50	16	86	
2. Owyhee River near Gold Creek 1/	14	7	27	
1/ Corrected for char Wild Horse Reserve		storag	ge in	

and the state of t

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SNOW MARCH 1, 1960		CURR	ENT INFORM	ATION	PAST R	ECORD	
SNOW COURSE NAME	ELEVATION	DATE OF SURVEY	SNOW DEPTH (Inches)	WATER CONTENT (Inches)	WATER ((Incl	CONTENT nes) NORMAL	YEARS OF RECORD
Bear Creek Big Bend Fox Creek Fry Canyon Gold Creek Jack Creek, Lower Jack Creek, Upper Jacks Peak Laurel Draw Midas	7800 6700 6800 6700 6600 6800 7250 8420 6700 7200	2/24 2/29 2/24 2/29 2/29 2/26 2/26 2/26 2/29 2/26	47 26 32 26 20 22 37 67 28 28	13.5 7.0 8.1 7.7 4.9 5.2 9.5 17.3 7.4 8.0	15.8 5.6 9.4 1.1 26.1 15.6 9.4	17.6 8.9 8.9 8.9 5.9 3.9	13 15 13 15 14 15 14 10
Rodeo Flat 76 Creek Taylor Canyon Tremewan Ranch	6800 7100 6200 5700	2/29 2/25 2/26 3/I	22 33 23 9	5.7 8.4 5.4 1.9	2.8 8.1 3.5	8.2 11.1 5.0 1.9	15 10 15,11

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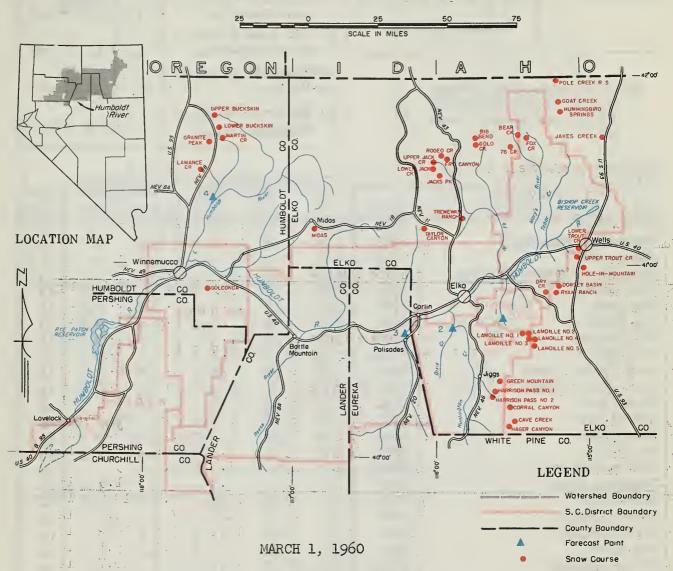
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SNOW SURVEY & WATER SUPPLY FORECAST

HUMBOLDT RIVER CHURCHILL, ELKO, EUREKA, HUMBOLDT, LANDER & PERSHING COUNTIES, NEVADA



A low water year is in prospect for the water users along the Humboldt. Unless there is above normal precipitation in March the runoff will be below normal due to below average snowpack and dry soils.

Lamoille Creek near Lamoille is forecast to flow 18,000 acre feet during the April 1 through July 31 period or 64 percent of the 1943-57 average.

The South Fork of the Humboldt River near Elko is forecast at 64,000 acre feet or 82 percent of normal flow.

The Humboldt at Palisade is being forecasted at 110,000 acre feet or 49 percent of 1943-57 normal spring flow.

Rye Patch Reservoir now contains 26,000 acre feet or 25 percent of March 1, 1943-57 normal.

Lovelock Valley water users will have to exercise careful water use this year.

RESERVOIR	USABLE CAPACITY		IRED (First o	
L	CAPACITI	THIS YEAR	LAST YEAR	NORMAL
Rye Patch	179	.26	120	103

Note: All normals bosed on 1943-195715 yeor period, "Years of record" indicates number of years used in 1943-1957 period. The forecast period is from April I through July 31.

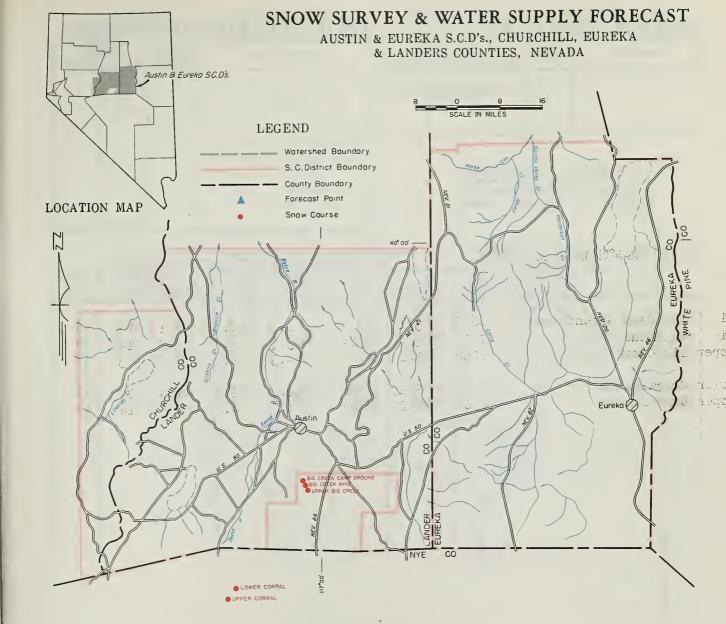
APRIL - JULY RUNOFF (1,000 Ac. Ft.)

	FORECAST POINT	FORECAST	MEAS	URED
		THIS YEAR	LAST YEAR	NORMAL
1.	Lamoille Creek near Lamoille	18	13	28
2.	So. Fork Humboldt River near Elko	64	10	74
3.	Humboldt River at Palisade	110	20	225
14.	Martin Creek near Paradise Valley	13	6	17

CNIOW

MARCH 1, 1960

SNOW MARCH 1, 1960		CURR	ENT INFORM	ATION	PAST F	RECORD	
SNOW COURSE		DATE OF	SNOW DEPTH	WATER CONTENT	WATER	CONTENT hes)	YEARS OF
NAME	ELEVATION	SURVEY	(Inches)	(Inches)	LAST YEAR	NORMAL	RECORD
Goat Creek	8800	2/25	52	13.0	12.4	-	3
Hummingbird Springs	8945	2/25	56	14.4	13.8	_	3
Jakes Creek	7000	3/2	19	5.0	3.0	_	0
Pole Creek Ranger Station	8330	2/25	54	14.0	13.0	-	3
Bear Creek	7800	2/24	47	13.5	15.8	17.6	13
Big Bend	6700	2/29	26	7.0	5.6	8.9	15
Fox Creek	6800	2/24	32	8.1	6.9	8.9	13
Fry Canyon	6700	2/29	- 26	7.7	3.4	8.2	15
Gold Creek	6600	2/29	20	4.9	4.1	5.9	14
Jack Creek, Lower	6800	2/26	22	5.2	2.0	3.2	15
Jack Creek, Upper	7250	2/26	37	9.5	6.1	8.9	14
Jacks Peak	8420	2/26	67	17.3	15.6	-	1 1
Laurel Draw	6700	2/29	28	7.4		l - New Cou	_
Rodeo Flat	6300	2/29	22	5.7	2.8	8.2	15
76 Creek	7100	2/25	33	8.4	8.1	11.1	10
Taylor Canyon	6200	2/26	23	5.4	3.5	5.0	15
Tremewan Ranch	5700	3/1	9	1.9	T T	1.9	15
Cave Creek	7500	3/1	43	12.5	5.7	13.8	114
Corral Canyon	8500	3/4	42	11.9	7.5	15.9	12
Dorsey Basin	8100	3/4	40	11.2	7.1	10.2	15
Dry Creek	6500	3/4	22-	6.0	2.2	5.1	14
Green Mountain	8000	3/2	40	11.4	7.5	10.7	12
Hager Canyon I. wastil	8000	3/1: -20				18.6	14
Harrison Pass #1 4 45 45		3/2		7 4.8	1 5.0	4.0	15
Harrison Pass #2	7400	3/2	. 23 Tak		18 75.3	¥4.0	13
Hole-in-Mountain	7900	3/1	56	16.8	8.2	4.0	
Lamoille #1,500 1 % entr 00	7100	3/1	27		14.5.4 · ·	9.8	15
Lamoille #2	7300	3/1	26	7.5	5.64	9.4	
Lamoille #3	7700	3/1	34	9.7	6.6	12.2	1 1
Lamoille #4xxx 0000 is its masses	0.00	3/1	40	12:4		17.7	15
Lamoille #5	8700	3/1	46	17.0	43.5	24.5	
Ryan Ranch	5800	3/4	9	3.1	T	2.0	7.0
	6900	3/1		3.7	,5.5	3.2	15
	8500	3/1	42	·13.7		18.3	13
Midas	7200	2/26	28	8.0	10.3	3.5	12
Golconda #2: out To taser _ A	6000	2/26	13	3.9	3.250	3.7	0.
Buckskin, Lower	6700	3/1	28	8.9	6.4	.8.4	12
Buckskin, Upper	7200	3/1	31	10.0	7.8	7.9	11
Granite Reak to wak to war Live	7800:	3/1	30 - 3	2392496	10.0	10.7	15
Lamance Creek	6000	3/2	34	11.2	7.7	8.9	14
Martin Creek	6700	3/1	31	9.0	7.9	8.2	15
TION OTHER OF COLF	10100	51 8. :		7.0	1 9	10.6	لسترسد



MARCH 1, 1960

Snow surveys on Big Creek south of Austin indicate 106 percent of the March 1, 1943-57 average. Good runoff can be expected in this area.

On the Reese River the snowpack was found to be 115 percent of the March 1 average. Streamflow in this area should be good.

Soils are damp and if spring precipitation is normal, range conditions will be fair to good.

APRIL - JULY RUNOFF (1,000 Ac. Ft.)

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RESERVOIR	USABLE	MEASU	RED (First o	f Month)		FORE
	CAPACITY	THIS YEAR	LAST YEAR	NORMAL		
					1	
					1	
	l					

NOTE: All normals based on 1943-195715 year period, "Yeors of record" indicates number of years used in 1943-1957 period. The forecast period is from April I through July 31.

FORECAST POINT	FORECAST	MEAS	URED
	THIS YEAR	LAST YEAR	NORMAL
	ł		
	į.		

SNOW/ MARCH 1, 1960

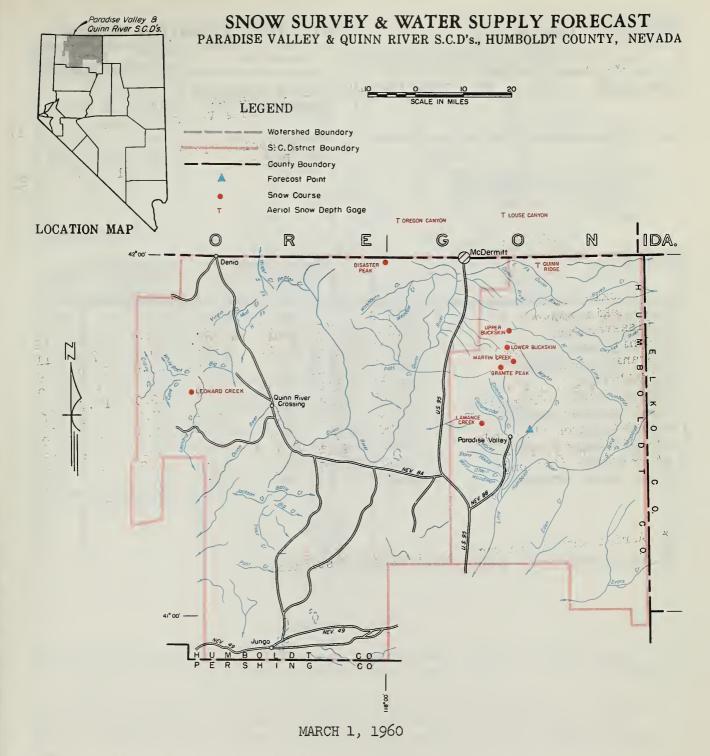
3110 W MARCH 1, 1900	CURF	RENT INFORM	ATION	PAST F	RECORD)
SNOW COURSE NAME ELEVI	DATE OF SURVEY	SNOW DEPTH (Inches)	WATER CONTENT (Inches)	WATER (Inc	CONTENT hes) NORMAL	YEARS OF RECORD
Big Creek Camp Ground 6600 Big Creek Mine 7600 Upper Big Creek 8000 Lower Corral 7500 Upper Corral 8500	3/1 3/1 3/1 2/25	9 14 18 8 19	2.3 3.6 4.3 2.2 4.0	0.6 1.2 1.9 2.3 4.6	2.1 3.2 6.2 1.4 5.0	15 14 13 14 14

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Paradise Valley water users can expect an April 1 through July 31 flow of 13,000 acre feet or 76 percent of the April-July 1943-57 normal from Martin Creek. March 1 snow surveys indicate above normal snowpack for this period, but dry soils will use a considerable amount of water before runoff occurs.

Other streams coming from the Santa Rosa mountains can be expected to have flows similar to Martin Creek.

APRIL - JULY RUNOFF (1,000 Ac. Ft.)

FORECAST

MEASURED

RESERVOIR	USABLE		RED (First o			FORECAST POINT
		THIS TEAM	LAST TEAR	NORMAL		
Rye Patch	179	26	120	103	1.	Martin Creek Paradise Val
						Humboldt Rive

1. Martin Creek near Paradise Valley 13 6 17

Humboldt River at Palisade 110 20 225

Note: All normols based on 1943-195715 year period, "Yeors of record" indicates number of yeors used in 1943-1957 period. The forecast period is from April I through July 31,

SNOW MARCH 1, 1960

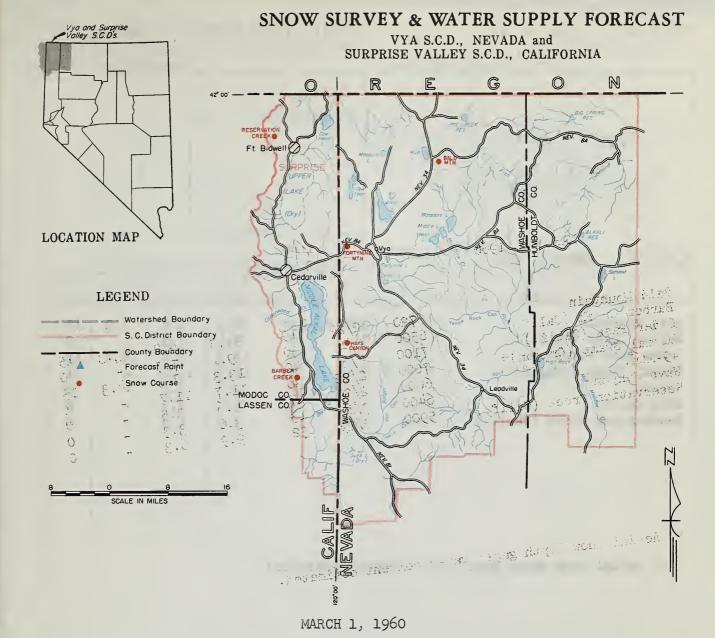
3110 W		CURR	ENT INFORM	ATION	PAST F	RECORD)
SNOW COURSE	ELEVATION	DATE OF SURVEY	SNOW DEPTH (Inches)	WATER CONTENT (Inches)	WATER (Inc	CONTENT hes) NORMAL	YEARS OF RECORD
Buckskin, Lower Buckskin, Upper Disaster Peak Denio Creek (Oregon)* Granite Peak Lamance Creek Louse Canyon (Oregon)* Martin Creek Oregon Canyon (Oregon)* Quinn Ridge* Trout Creek (Oregon)*	6700 7200 6500 6000 7800 6000 6440 6700 7240 6300 7800	3/1 3/1 2/28 2/22 3/1 3/2 2/27 3/1 2/27 2/27 2/22	28 31 29 30 34 13 31 27 20 20	8.9 10.0 9.2 0.8 9.4 11.2 3.6 9.6 5.6	6.4 7.8 15.6 10.0 7.7 1.8 7.9 4.2 3.6 3.4	8.4 7.9 15.7 - 10.7 8.9 - 8.2	12 11 9 0 15 14 0 15 0 0

^{*} Aerial snow depth gage; water content estimated

THE LOSS

Per Miss V. Alejourent as commontant an April I through 31 flow of it. 10 sers feet or 70 percent of upe April-July 1943-5, numed from Abroit Crest. Terch t and surveys indique above coreal subspeck for this parint that any only will use a considerable and or wever before anothe occurs.

Other streams roming thom the Gadev Rosa mountains out be expected to have all the cimilwe to Martin Oreek.



Water supply prospects in this area are about normal. Soils are damp under the snowpack but will require some of the snow-stored water before runoff occurs.

Bald Mountain snow course on the Sheldon Antelope Refuge measured 6.5 inches of water or 196 percent of the March 1 1943-57 normal. Hays Canyon and 49-Mtn. have no normals but are better than last year; indicating good conditions this year.

In the Warner Mountains, the snowpack is about normal. Cedar Pass snow course is 93 percent of the March 1 1943-57 average.

With average spring precipitation most of the streams in Surprise Valley will flow about normal this year.

APRIL - JULY RUNOFF (1,000 Ac. Ft.)

RESERVOIR	USABLE	MEASURED (First	MEASURED (First of Month) FORECAST POINT FOREC		FORECAST	MEASURED	
	CAPACITY	THIS YEAR LAST YEAR	R NORMAL		THIS YEAR	LAST YEAR	NORMA
ote: All normals ba	sed on 1943	-195715 year					

July 31.

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of years used in 1943-1957 period. The forecast period is from April I through

SNOW MARCH 1, 1960		CURRENT INFORMATION			PAST RECORD		1
SNOW COURSE NAME ELEVATION		DATE OF SURVEY	SNOW DEPTH (Inches)	WATER CONTENT (Inches)	WATER (Inc	CONTENT hes) NORMAL	YEARS OF RECORD
Bald Mountain Barber Creek (Calif.) Cedar Pass (Calif.) Dismal Swamp (Oregon)* 49-Mtn. Hays Canyon Reservation Creek (Calif.)	6720 6500 7100 7000 6000 6400 5900	2/29 3/1 3/3 2/22 2/29 3/1 2/29	19 30 40 36 17 13 32	6.5 9.1 13.3 11.7 4.6 3.6 9.9	2.8 7.5 8.0 11.7 3.5 3.3 6.3	3.3	15 0 13 1 0 0

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^{*} Aerial snow depth gage; water content estimated.

Agencies Cooperating in Collecting Data Contained in this Bulletin

FEDERAL

Soil Conservation Service
Forest Service
Geological Survey
Bureau of Reclamation
Fish and Wildlife Service
Army
Navy
Weather Bureau
Agricultural Research Service

STATE

Nevada Department of Conservation & Natural Resources
Division of Water Resources
Nevada State Forester-Firewarden
Nevada Cooperative Snow Surveys
Colorado River Commission of Nevada
California Cooperative Snow Surveys
California Department of Water Resources
Oregon Cooperative Snow Surveys
Nevada Association of Soil Conservation Districts

PRIVATE

Walker River Irrigation District
Amalgamated Sugar Company
Owyhee Project North Board of Control
Owyhee Project South Board of Control
Virginia City Water Company
Kennecott Copper Corporation
Squaw Valley Development Company
Pacific Gas & Electric Company
Nevada Irrigation District
Sierra Pacific Power Company
Washoe County Water Conservation District
Truckee-Carson Irrigation District
Pershing County Water Conservation District

Other organizations and individuals furnish valuable information for the snow survey reports. Their Cooperation is gratefully acknowledged.

Federal - State - Private COOPERATIVE SNOW SURVEYS

Furnishes the basic data necessary for forecasting water supply for irrigation, domestic and municipal water supply, hydro-electric power generation, navigation, mining and industry

"The Conservation of Water begins with the Snow Survey"